

School of University Polytechnic

Diploma in Civil Engineering
Semester End Examination - Jul 2024

Duration : 180 Minutes
Max Marks : 100

Sem III - N1DB305C - Surveying IGeneral Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

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| 1) | What is the length of one link of engineering chain. | K1(2) |
| 2) | Explain the requirement of surveying in civil engineering. | K2(4) |
| 3) | Explain the uses of abney's level with diagram. | K2(6) |
| 4) | Illustrate the Tangent clinometers and planimeter along with uses. | K3(9) |
| 5) | Solve, Convert the following reduced bearing to whole circle bearing (i) N 25 degree W (ii) S 19 degree E (iii) S 28 degree W (iv) N 32 degree E | K3(9) |
| 6) | A 20 m chain was found to be 15 cm short after survey if the measured distance was 120 m then Evaluate the actual distance | K5(10) |
| 7) | Draw the diagram of a 20 m chain with details. | K4(12) |
| 8) | The following readings were taken with a level and 4 m staff. Draw up a level Book page and assess by H.I method.
B.M.(50 m) 0.425, 0.85, 2.365, 2.150,2.105 C.P 0.535 , 1.865, 1.170. | K5(15) |
| 9) | Evaluate the process of surveying by surveyor compass. | K5(15) |
| 10) | Explore the engineering chain with proper diagram. | K6(18) |